

Mandich 9-10

Serial No. 09/912,129

Filing Date: July 24, 2001

990151-2A

PATENT ABSTRACTS OF JAPAN

(11)Publication number:

56-100145

(43)Date of publication of application: 11.08.1981

(51)Int.Cl.

CO3B 37/00 CO3B 20/00 // G02B 5/14

(21)Application number: 55-000088

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(22)Date of filing:

07.01.1980

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(54) MANUFACTURE OF QUARTZ GLASS

(57) Abstract:

PURPOSE: To obtain quartz glass free from cracking and easy to dehydrate by cooling and freezing silicic acid gel formed by the hydrolysis of a silicon compound after which the gel is vacuum dried and converted into transparent glass by heat dehydration.

CONSTITUTION: A hydrolyzable silicon compound is hydrolyzed in a liq. phase to form silicic acid gel. This gel is then cooled, freezed, vacuum dried, and converted into transparent glass by heating in an atmosphere contg. a halogen-contg. dehydrating agent. The silicon compound used includes alcoholates such as Si(OCH3)4 and Si (OC2H5)4 represented by formula Si(OR)4 (where R is alkyl) and SiCl4. The dehydrating agent is added to remove OH groups in porous gel or quartz glass, and SOCI2, SO2CI2, S2CI2, CCI4 or the like is used as the agent.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]